

Appl. No. 10/816,814
Amendment dated: April 8, 2008
Reply to OA of: January 9, 2008

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claims 1-19(canceled).

20(currently amended). A process for producing solvent-based fluorinated water and oil repellent which comprises 20-50% (w/w) blocked polyfluorourethane compound and 50-80% (w/w) solvent, said process[[,]] comprising the steps of:

(a) reacting 0.4 ~ 0.6 mol equivalent percentage of cross-linking agent with 0.8 ~ 1.2 mol equivalent percentage of diisocyanate or polymeric diisocyanate compound to form a prepolymer having 1 ~ 3 mol equivalent percentage of terminal –NCO groups;

(b) reacting said prepolymer with 0.3 ~ 0.6 mol equivalent percentage of fluoroalcohol to form polyfluorourethane having 0.5 ~ 1.5 mol equivalent percentage of unreacted terminal –NCO groups; ~~and~~

(c) adding solvent;

~~(c)~~ (d) blocking said –NCO groups with 0.05 ~ 0.4 mol equivalent percentage of blocking agent to obtain blocked polyfluorourethane; and

(e) adding solvent to the blocked polyfluorourethane;

wherein said solvent comprises methanol, ethanol, isopropanol, ethylene glycol, hexylene glycol, propylene glycol, dipropylene glycol, butylcellosolve, ethyl acetate, butyl acetate, acetone, butanone, methyl isobutyl ketone, dipropyleneglycol monobutylether, or mixtures thereof.

21(canceled).

22(currently amended). The process according to Claim 20, wherein the reaction temperature ~~in steps (a), (b), and (c) range~~ ranges between 20°C and 120°C.

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23(original). The process according to Claim 20, wherein the reaction time in step (a) is 0.5 ~ 4 hours.

24(original). The process according to Claim 20, wherein the reaction time in step (b) is 2 ~ 24 hours.

25(currently amended). The process according to Claim 20, herein the reaction time in step ~~(c)~~ (d) is 0.5 ~ 4 hours.

Claims 26-28(canceled).

29(new). The process according to Claim 20, wherein said process is batch polymerization or semi-continuous polymerization reaction.